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### NOTICE OF ALLOWANCE AND FEE(S) DUE

23455

7590

12/12/2008

EXXONMOBIL CHEMICAL COMPANY 5200 BAYWAY DRIVE P.O. BOX 2149 BAYTOWN, TX 77522-2149 EXAMINER

WYROZEBSKI LEE, KATARZYNA I

ART UNIT PAPER NUMBER

1796

DATE MAILED: 12/12/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,349	04/15/2004	Ramin Abhari	2003B043C	8653

TITLE OF INVENTION: FUNCTIONALIZED OLEFIN POLYMERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including ed below or directed othe tions.	ng the Patent, advance o herwise in Block 1, by (	rders and notification of nation a) specifying a new corres	naintenance fees wil pondence address; a	l be mailed to the current nd/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for	
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BAYTOWN, T	X 77522-2149					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	F	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/825,349	04/15/2004	•	Ramin Abhari	•	2003B043C	8653	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I			
nonprovisional	NO	\$1510	\$300	<b>\$</b> 0	\$1810	03/12/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
WYROZEBSKI LE	E, KATARZYNA I	1796	524-487000				
1. Change of correspond CFR 1.363).	ence address or indicatio	on of "Fee Address" (37	2. For printing on the patent front page, list				
Change of corresp	oondence address (or Cha B/122) attached.	ange of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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PTO/SB/47; Rev 03-0 Number is required.	O2 or more recent) attack	ned. Use of a Customer	2 registered patent atto- listed, no name will be		name is 3		
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	less an assignee is ident	tified below, no assignee	data will appear on the party of the party o	atent. If an assignee	is identified below, the d	ocument has been filed for	
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Please check the appropr	rate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🖵 Corp	poration or other private gro	oup entity Government	
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_ ~ .	s SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	b. Applicant is no long	ger claiming SMALL	ENTITY status. See 37 Cl	FR 1.27(g)(2).	
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Typed or printed name				Registration No.			
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or r	etain a benefit by the	public which is to file (and	d by the USPTO to process)	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,349	04/15/2004	Ramin Abhari	2003B043C	8653
23455	7590 12/12/2008		EXAM	IINER
EXXONMOBII	CHEMICAL COME	WYROZEBSKI LEE, KATARZYNA I		
0-00-111	5200 BAYWAY DRIVE			PAPER NUMBER
P.O. BOX 2149 BAYTOWN, TX	77522-2149		1796 DATE MAILED: 12/12/2008	

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 355 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 355 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/825,349	ABHARI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	l.,	4700			
	Katarzyna Wyrozebski	1796			
The MAILING DATE of this communication apportant All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. <b>THIS</b>			
1. This communication is responsive to <u>11/7/08</u> .					
2. The allowed claim(s) is/are <u>1-68</u> .					
3. ☐ Acknowledgment is made of a claim for foreign priority unallocation a) ☐ All b) ☐ Some* c) ☐ None of the:					
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.				
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application No	·			
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached					
1)  hereto or 2)  to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of					
Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	• •			
	Paper No./Mail Da	te <u>12/9/08</u> .			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	ment/Comment			
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance			
•	9.  Other				
/Katarzyna Wyrozebski/					
Primary Examiner, Art Unit 1796					

#### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony Boone on December 9, 2008.

The application has been amended as follows:

Claim 1 c) delete first occurrence of "the" in front of Mz.

Claim 15, line 1, delete "the" in front of "SEC".

Claim 38, line 2, delete term "another" and insert "additional".

Claim 39, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 40, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 41, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 42, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 43, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 43, line 6, delete term "or" and insert term "and".

Claim 44, line 1, delete term "the polymer" and insert "the additional polymer".

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Claim 44, delete parentheses in lines 4-8.

Claim 44, line 11, delete term "polymers of aromatic monomers such as".

Claim 44, line 12, delete term "and/or" and insert "and".

Claim 45, line 1, delete term "the polymer" and insert "the additional polymer".

Claim 54, line 2, delete term "block".

Claim 57, lines 1-2, delete term "in component 2".

Claim 57, line 2, delete term "about".

# Examiner's Statement of Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The applicants pending claims require that the properties recited in independent claim 1 as well as claims 2-3 be attributed to polymer before it has been functionalized.

The prior art of record discloses polymer mixture, wherein polymers are polyolefins. The prior art of BEREN discloses three component system, wherein component a) is propylene homopolymer; component b) is high melt strength propylene polymer and component c) is modified propylene polymer, that is grafted with unsaturated compound. The branchin ratio disclosed in BEREN (see col. 2), is attributed to high melt strength propylene polymer, which polymer although has graft index of 0.9 has Mw too high that those recited in the instant claims.

The second component of BEREN, which is the modified polypropylene polymer comprises unsaturated polar group (in the amount of 1.0-4.0 wt %). However, the branching

ratio of the polymer of claim 1, is reported before the polymer is functionalized. Therefore, the functionalized polymer of prior art of BEREN is not the same as the functionalized polymer of the instant invention, since grafting in BEREN is result of functionalization.

Furthermore, the instant claims comprise limitation of Mz, which reflects content of insoluble fractions at given Mw. This limitation is not disclosed in BEREN.

The applicants have properly filed Terminal Disclaimers on 9/6/2007 and 7/24/2007.

**Rejoinder** – Claim 63 is hereby rejoined, since it comprises allowable limitations of independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski whose telephone number is (571) 272-1127. The examiner can normally be reached on Mon-Thurs 8:30 AM-2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Katarzyna Wyrozebski/ Primary Examiner, Art Unit 1796 December 9, 2008